Application No.: 10/516,864 Docket No.: 32144183-000004

Response to Office Action mailed October 15, 2007

APPENDIX A: CLEAN COPY OF AMENDED PARAGRAPHS

[0013] FIG. 2a and FIG. 2b illustrate detection of blood plasma β-catenin RNA from patients for

colorectal adenoma using RT-PCR.

[0014] FIG. 2c illustrates detection of blood plasma β-actin RNA from patients for colorectal

adenoma using RT-PCR. FIG.2d and FIG.2e illustrate detection of plasma β -catenin and β -actin

RNA from healthy individuals using RT-PCR.

[0031] PCR analysis was first performed with serum DNA samples extracted from colorectal

carcinoma patients. The results showed that a 359 bp band was observed in all 15 serum DNA

samples. Ten patients were tested with confirmed adenoma ranging from mild to severe

dysplasia. A positive band was detected in 9 of 10 patients. The detection rate was 90%. The

only negative case was amplifiable as it yielded positive 156 bp band after amplification with

RET specific primers. PCR amplification of β-catenin was also performed on 10 healthy

volunteer controls. None of the serum samples showed positive signals for β-catenin, while

positive signals were clearly detected using RET specific primers. In addition, a known positive

carcinoma serum sample was carried out in parallel and showed typical 359 bp band on the

agarose gel (data not shown). These results demonstrate the ability of β-catenin to accurately

detect colorectal carcinoma and adenoma.

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